

Muon MDC

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July Computing Meeting

Simulations Completed

Run Type	Run Number Range	Pisa	Resp
AuAu Central	0010200001-0010200986	95k/98.6k	95k/98.6k
AuAu MinBias	0010201001-0010201036	10k/10k	10k/10k
PP MinBias	0010202001-0010202050	50k/50k	50k/50k
PP J/ψ	0010202100-0010202149	50k/50k	50k/50k
	Pisa Time/Space	Resp Time/Space	Reco Time/Space
AuAu Central	15min/3.7MB	38s / 330kB	67s/
AuAu MinBias	6.5min/1.4MB	10s/150kB	17s/
PP MinBias	0.4s/20kB	4.3s/68kB	5s/
PP J/ψ	0.4s/20kB	4.3s/68kB	6s/

Activity Summary (a little muon-centric)

- May 3: **MuTr response uses new geometry.**
- May 7: **Muon arm integrated into central response.**
- May 8: MuTr Unpacker modified.
- May 8: MutGetGea bug fixed.
- May 9: **Muon arm integrated into central reconstruction.**
- May 10: Central AuAu event generation pattern defined.
- May 10: CC-J resource request submitted (Central Au+Au PISA).
- May 14: **Central Au+Au Hijing events generated.**
- May 14: MuTr Geometry modified to fix a seg fault.
- May 15: **MuTr response code modified to represent real data format.**
- May 16: **MuTr database access enable in default macros**
- May 16: **MuID second pass road finder committed.**
- May 21: **PISA production begins at CC-J.**
- May 22: MuTr Geo modified to enable North Station 3.
- May 23: MuTr Geo modified for hits outside of volume.
- May 24: MuTr dMuoTracks modified to enable reading of DST.
- May 25: MuID tube efficiencies set to 97%
- May 27: PISA production resumes at CC-J after shutdown.

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Activity Summary

- June 1: HPSS becomes unavailable
- June 2: Data22 filling eminent, begin to utilize Data25 (66k/98k CentAuAu at RCF)
- June 2: **J/ ψ signal pisa files generated for mixing with Central Au+Au**
- June 3: **Response of mixed Au+Au central.**
- June 4: Data25 becomes unavailable.
- June 7: MuTr database entries reconfigured; requires different time stamp for MDC.
- June 7: Data25 becomes available (empty); lost pisa files copied from CC-J.
- June 7: **Reconstruction batch jobs created.**
- June 8: Lost pisa signal files regenerated.
- June 9: Response of mixed Au+Au central.
- June 14: **First test DST's produced.**
- June 29: **Reconstruction code tagged and built**
- June 30: Reconstruction passes tests
- June 30: Full Scale Production Begins
- July 2: Production DST's not readable (using outdated macro)
- July 6: Sample DST's pass tests
- July 6: MuTr configured to use BBC instead of MVD
- July 7: CRS becomes unavailable

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Muon Software Enhancements

- MuTr offline detector geometry
- MuTr calibrations from database
- MuID second pass road finder
 - Ghost rejection
 - Enhance particle id
- MuTr tested with “real” data format
- MuID tested with “real” data format
- Muon reconstruction integrated with Central Arm
 - Simulation reconstruction macro
 - Compiled Reconstruction